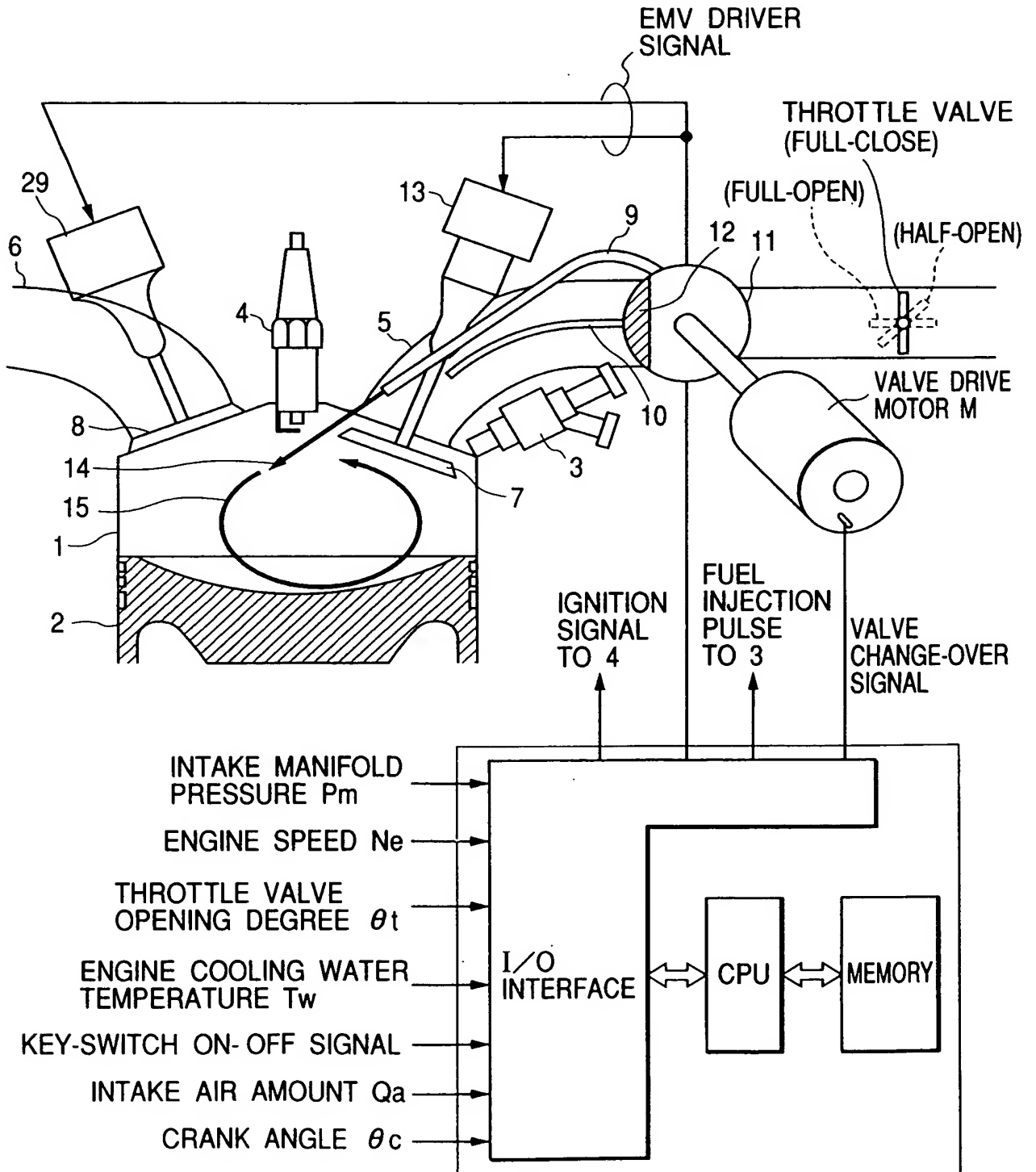


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FIG. 1A



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FIG. 1B

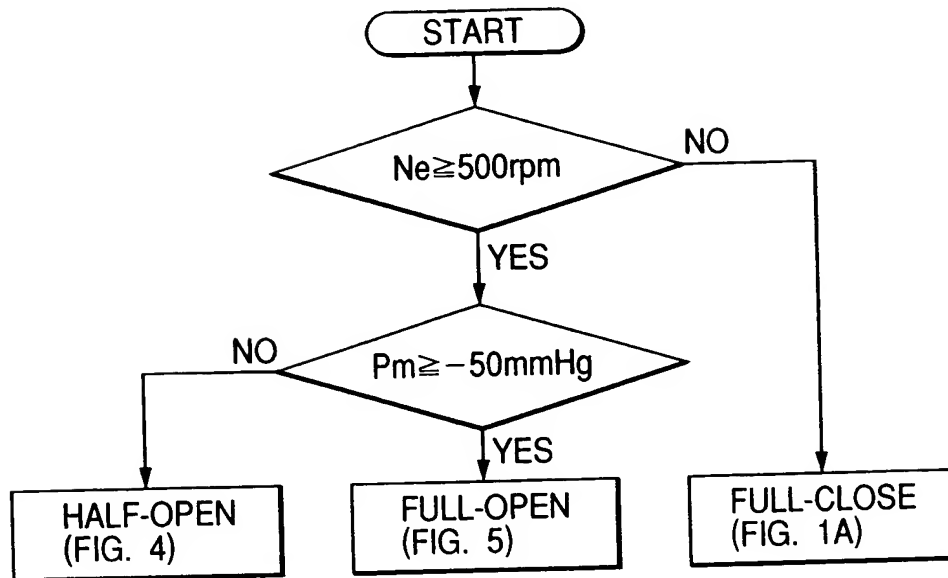
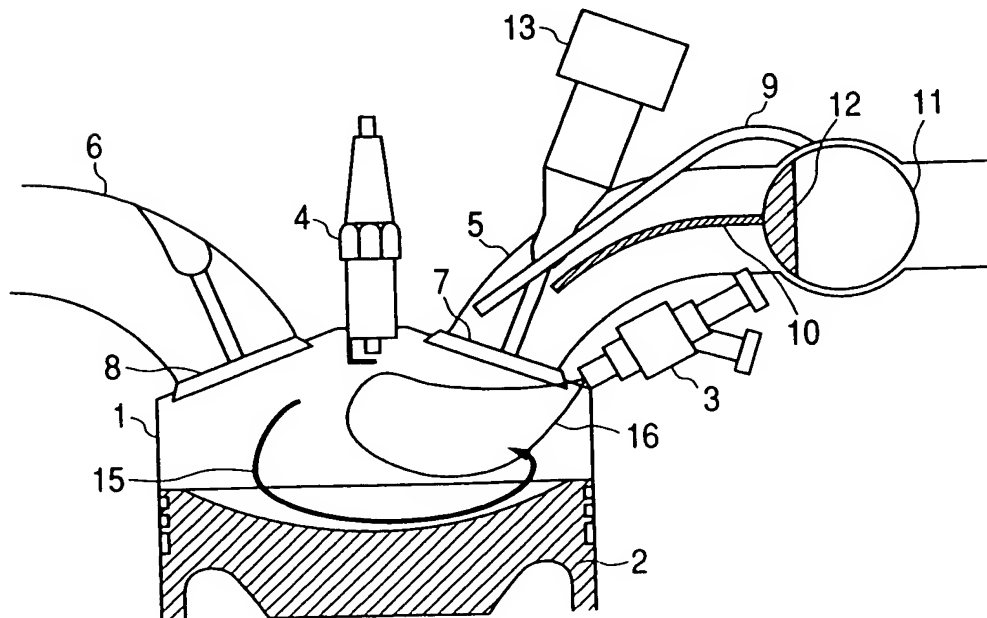


FIG. 2



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FIG. 3

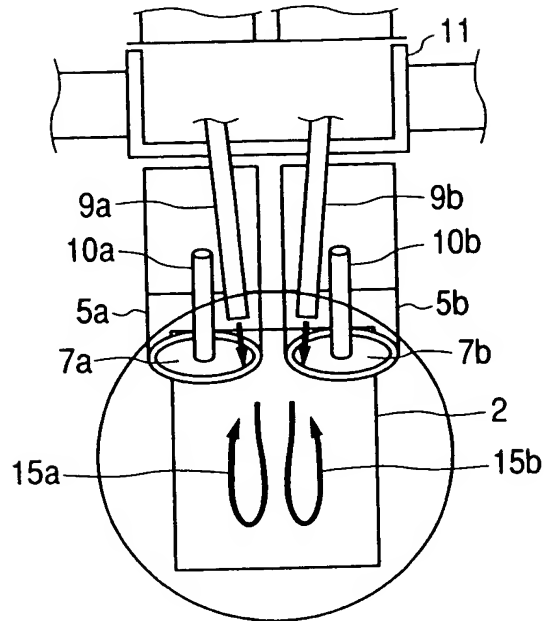
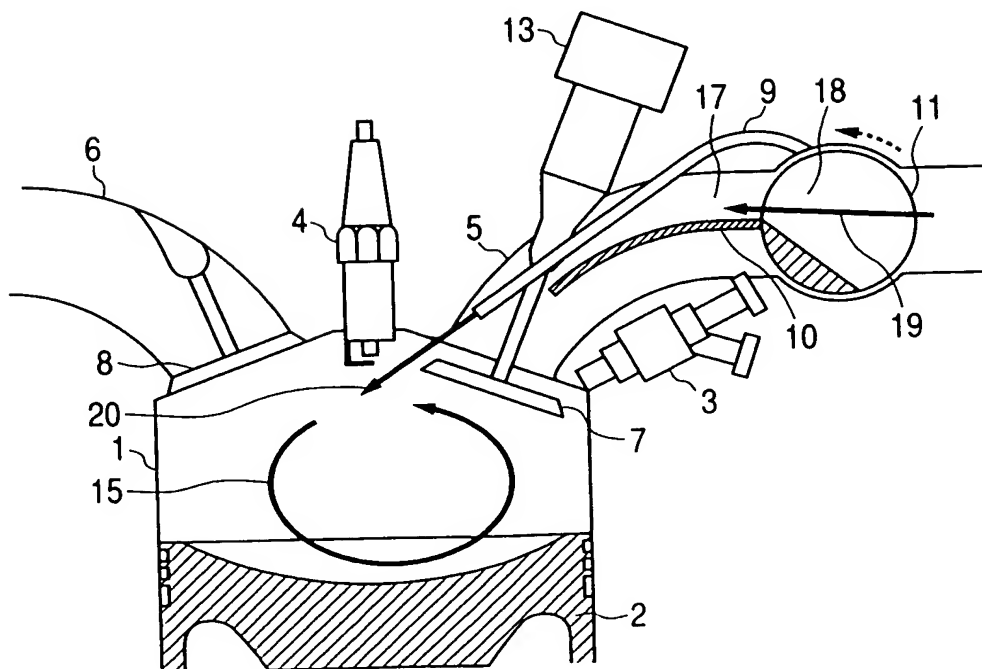


FIG. 4



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FIG. 5

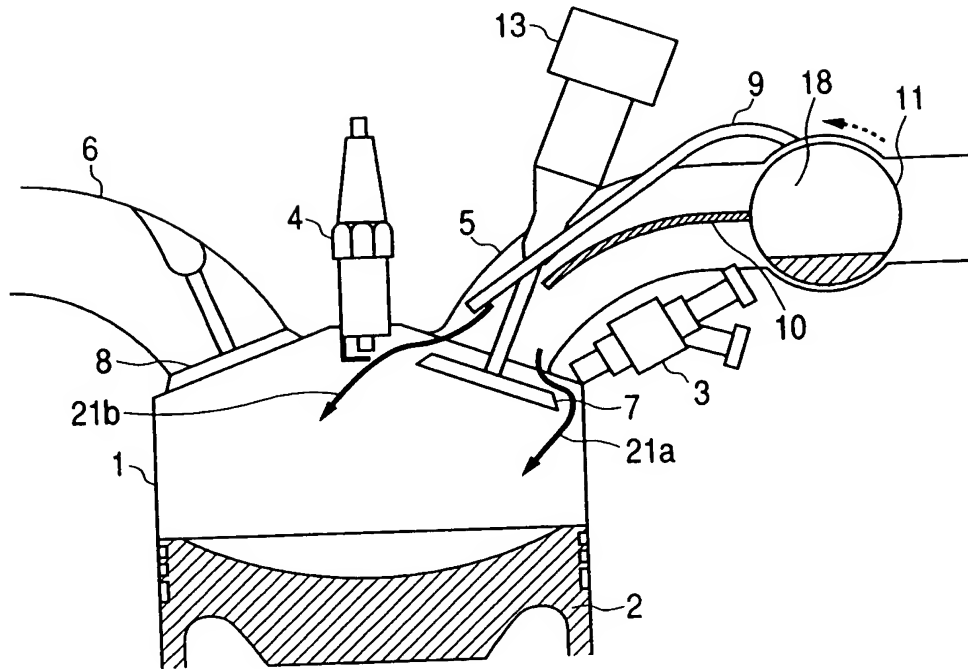


FIG. 6

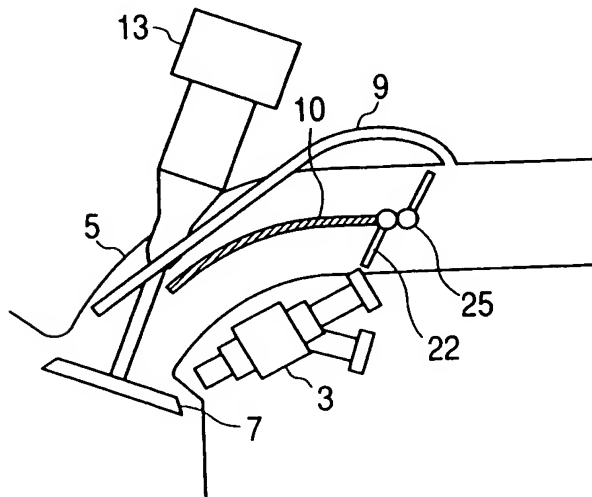


FIG. 9

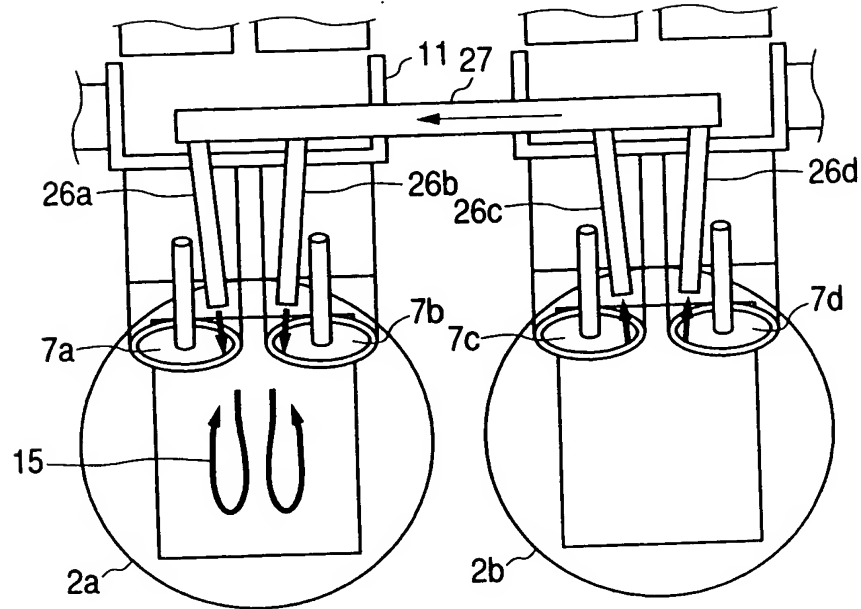


FIG. 10

EACH OF ARROW MARKS SHOWS AN ASCENT
AND A DESCENT OF A PISTON

NO. 1 CYLINDER	INT ↓	COM ↑	EXP ↓	EXH ↑
NO. 3 CYLINDER	EXH ↑	INT ↓	COM ↑	EXP ↓
NO. 4 CYLINDER	EXP ↓	EXH ↑	INT ↓	COM ↑
NO. 2 CYLINDER	COM ↑	EXP ↓	EXH ↑	INT ↓

INT : INTAKE STROKE
COM : COMPRESSION
STROKE
EXP : EXPLOSION STROKE
EXH : EXHAUST STROKE

0 180 360 540 720
CRANK ANGLE (DEGREE)

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FIG. 11

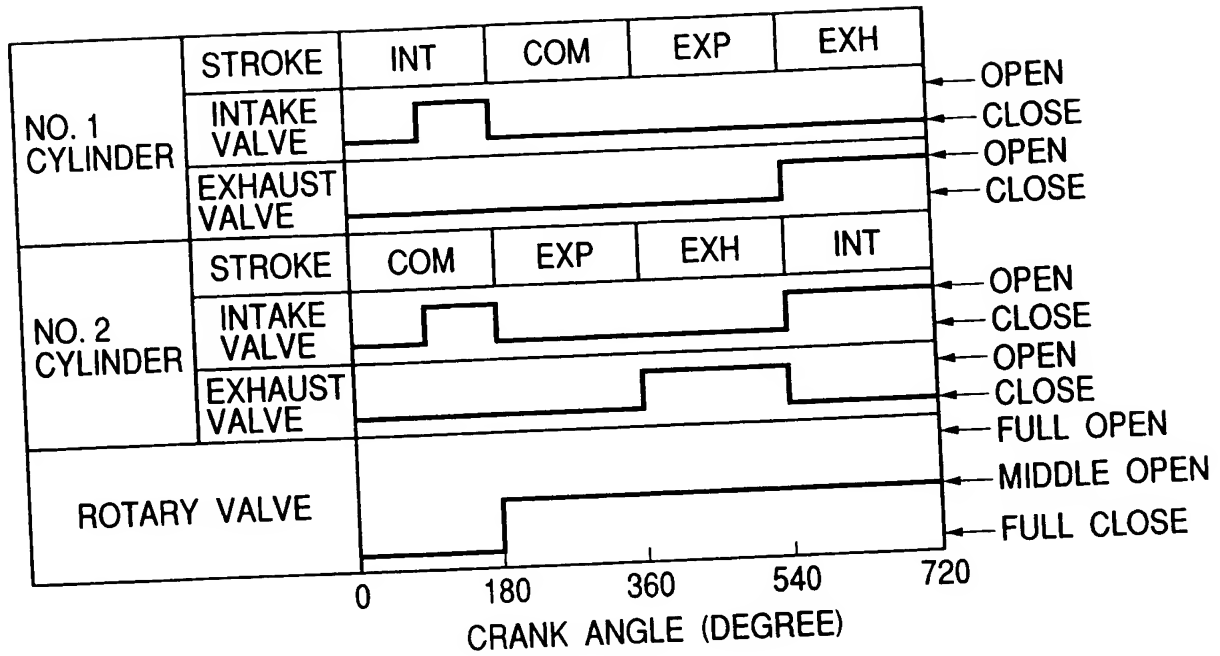


FIG. 12

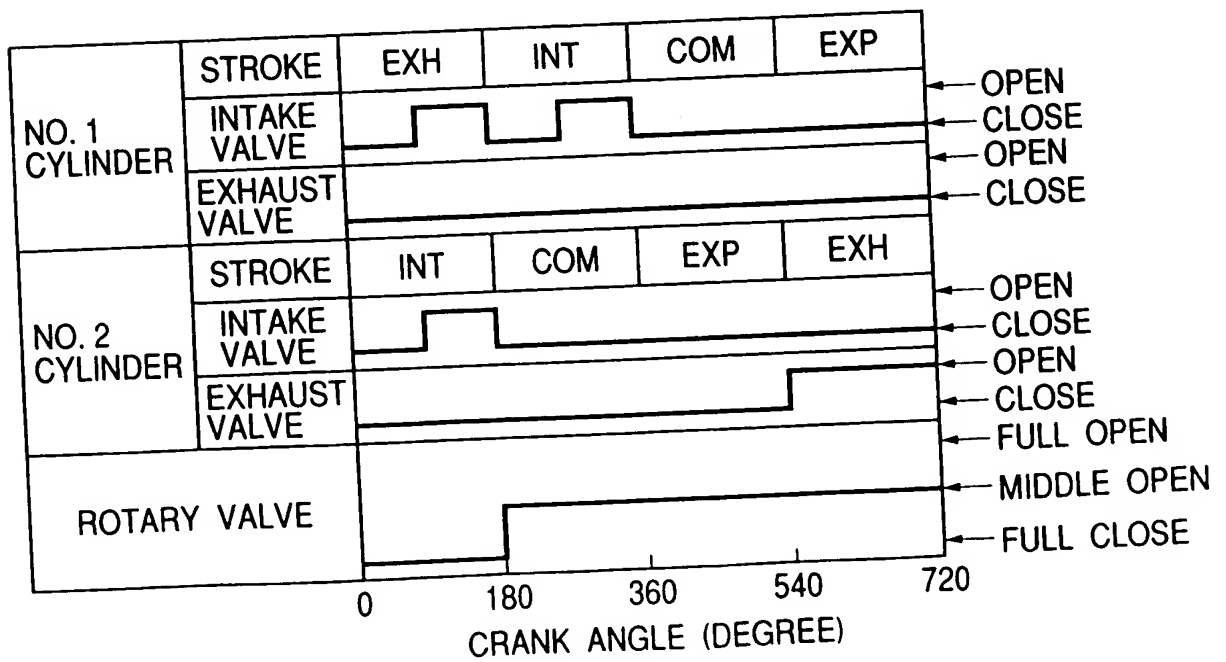


FIG. 13

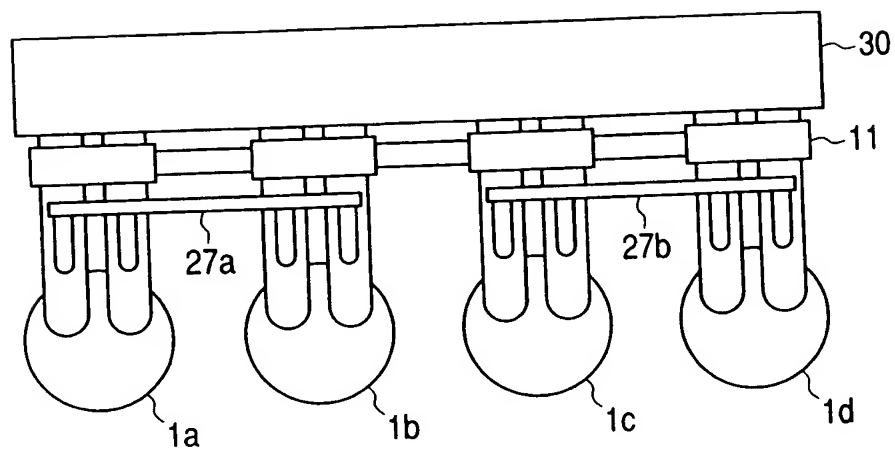
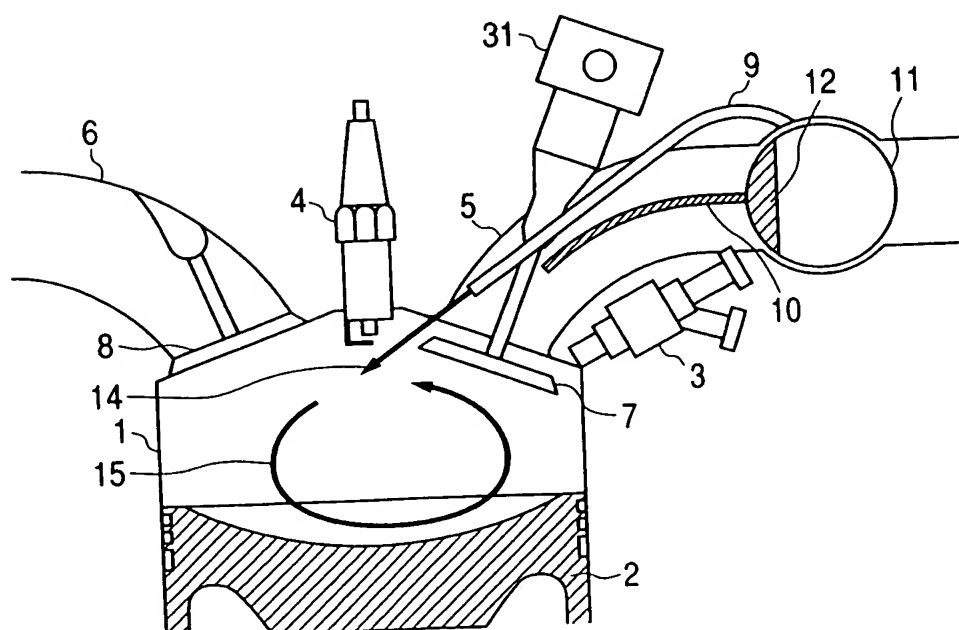


FIG. 15



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FIG. 14

